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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *13 December 2004*.

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-14* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-14* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date *12/13/2004*.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____ .

DETAILED ACTION

1.   Claims 1-14 are subject to examination.

Specification

2.   The disclosure is objected to because of the following informalities: Specification

page 8, line 8 describes "terminal 100" as part of Fig. 2, communicating " via Proxy-

CSCF 2101." Evidently as seen from Fig. 2, this element 100 should be "140" and

accordingly appropriate correction to the specification is requested.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless-

> (e) the invention was described in (1) an application for patent, published under section 122(b), by
> another filed in the United States before the invention by the applicant for patent or (2) a patent
> granted on an application for patent by another filed in the United States before the invention by the
> applicant for patent, except that an international application filed under the treaty defined in section
> 351(a) shall have the effects for purposes of this subsection of an application filed in the United States
> only if the international application designated the United States and was published under Article 21(2)
> of such treaty in the English language.

4.   Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang

(US 2002/0131395 A1).

Referring to claim 1,

Wang teaches a communication system (Figs. 2, 12 and 16)comprising:

a multimedia network (para. [0026], "FIGS. 2-16 illustrate a system and method

for providing multimedia content in a GPRS network according to an implementation of

the invention.") comprising an information storage entity for storing user information

([0112] At step 1702, the User B sends a SIP Subscribe request to the SIP AS 216 to

subscribe to the presence status of User A. At step 1704, User A powers on his mobile station and sends an Attach request to the SGSN 208. At step 1706, the Gb/Iu handler 1402 sends the Attach_Accept message to the MM 1404. The MM 1404 checks the SGSN internal SIP_AS flag and scans the subscriber profile and sends the Attach accept message to the User A at step 1708.") and call state control function (para,.[0077], "(4) Further presence status can be established by CSCF (call state control function) registration (application layer registration) event reported from the serving CSCF in an IMS (IP Multimedia subsystem) network to indicate the mobile subscriber has an open channel to undertake a multimedia session.", and para.[0033], "As will be explained in greater detail below, the SIP application server 216 is a SIP-based service platform, i.e., may be implemented as a SIP proxy/redirect/registrar server enhanced with service logic execution environment, APIs, web server, and media servers." **Note:** Application server 216 also provides the call control function, and as such it is also providing call state control function.)entities;

an entity that is external to the multimedia network (para. [0079], "FIG. 12 is an example of presence service where the presence status is established at the subscriber's attachment to the GPRS network. The presence server notifies another user of the presence status change, who previously subscribed to this information.", para. [0080], "User B subscribes to User A's presence status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled)." Note: GGSN 210 is interfacing the Internet to HOME PRESENCE

SERVER".) and arranged to subscribe to the multimedia network for notifications regarding events that associate with at least one other entity of the communication system (para. [0078], "The presence status is stored in a centralized presence server in the home network regardless which event established the status. SIP SUBSRIBE/NOTIFY message may be used for another party to subscribe to a subscriber's presence status, and/or to be notified of the subscriber's presence status from the presence server. SIP REGISTER and other possible SIP messages are suitable to report a subscriber's presence status to the presence server."), the arrangement being such that

subscription messages from the external entity are routed to at least one call state control function entity (para. [0111], "FIG. 16 is a diagram illustrating message flow for a sample Presence Service followed by Instant Messaging. In the example shown, User B 202b subscribes to the presence status of User A 202a at the SIP Application Server 216, which serves as the Presence Server." Para. [0080], "User B subscribes to User A's presence status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled).", based on information stored in said information storage entity para. [0007] According to one embodiment of the invention, the GPRS system supports both SIP Application Server (SIP AS) and CAMEL Service Environment (CSE). In operation, the system determines if a mobile station is to be provided a CAMEL-triggered or a SIP-triggered service, based upon subscription

information stored in an HLR or the SGSN configuration. The system then allows the

appropriate service to be invoked and executed."),

said at least one call state control function entity is provided with storage means

for storing information received in said subscription messages (para.[0080], "The

subscription list is checked there and a notification message 1210 is sent to User B.",

para.[0112], "At step 1716, the SIP AS 216 checks if anyone is to be notified of the

presence of MS A, and sends a notify message to User B. "), and

said at least one call state control function entity sends a notification in response

to an event defined by said information stored at the storage means (para. [0079], "FIG.

12 is an example of presence service where the presence status is established at the

subscriber's attachment to the GPRS network. The presence server notifies another

user of the presence status change, who previously subscribed to this information.")

Referring to claim 2,

Wang teaches a communication system as claimed in claim 1, wherein the

subscription messages are routed to the at least one call state control function entity via

the information storage entity (para. [0080], "User B subscribes to User A's presence

status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is

done by contacting User A's home presence server, which is an Application Server

(may or may not be SIP enabled). It is assumed that User A was not online yet.

Otherwise the Application Server would send notification message right away to User B.

When User A powers on, the network (SGSN) intercepts the event and sends a SIP

REGISTER 1204 request to the SIP Application Server (visited presence server), which

in turn forwards the information to User A's home presence server 1206. The

subscription list is checked there and a notification message 1210 is sent to User B. An

Instant Message 1208 from User B to User A follows. User B may choose to use other

means to contact User A, such as SMS." Note: Please note in Fig. 12, and 14 that "MM"

and "HLR" are part of SGSN/gprsSSF and the SGSN is indicated as "208".)

Referring to claim 3,

Wang teaches a communication system as claimed in claim 1 , wherein the

multimedia network comprises an IP multimedia subsystem (para.[0077], "4) Further

presence status can be established by CSCF (call state control function) registration

(application layer registration) event reported from the serving CSCF in an IMS (IP

Multimedia subsystem) network to indicate the mobile subscriber has an open channel

to undertake a multimedia session.")

Referring to claim 4,

Wang teaches a communication system as claimed in claim 1 wherein the

information stored at the information storage entity contains information regarding those

call state control function entities the external entity can subscribe to (para.[0077], "4)

Further presence status can be established by CSCF (call state control function)

registration (application layer registration) event reported from the serving CSCF in an

IMS (IP Multimedia subsystem) network to indicate the mobile subscriber has an open

channel to undertake a multimedia session.")

Referring to claim 5,

Wang teaches a communication system as claimed in claim 1, wherein the notification is sent to the external entity (para. [0080], "User B subscribes to User A's presence status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled). It is assumed that User A was not online yet. Otherwise the Application Server would send notification message right away to User B. When User A powers on, the network (SGSN) intercepts the event and sends a SIP REGISTER 1204 request to the SIP Application Server (visited presence server), which in turn forwards the information to User A's home presence server 1206. The subscription list is checked there and a notification message 1210 is sent to User B. An Instant Message 1208 from User B to User A follows. User B may choose to use other means to contact User A, such as SMS.", Note: User B is the external entity.)

Referring to claim 6,

Wang teaches a communication system as claimed in claim 1, wherein the information storage entity comprises a home subscriber server (para. [0080], "User B subscribes to User A's presence status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled).", para. [0112], "At step 1702, the User B sends a SIP Subscribe request to the SIP AS 216 to subscribe to the presence status of User A. At step 1704, User A powers on his mobile station and sends an Attach request to the SGSN 208. At step 1706, the Gb/Iu handler 1402 sends the Attach_Accept message to the MM 1404. The MM 1404 checks the SGSN internal

SIP_AS flag and <u>scans the subscriber profile</u> and sends the Attach accept message to the User A at step 1708. At step 1710, a Start_SIP_UA message is sent to the SIP UA 214. At step 1712, a SIP Register message is sent to the SIP AS 216 that the MS A is successfully attached.")

Referring to claim 7,

Wang teaches a communication system as claimed in claim 1, wherein the call state control function entity comprises a serving call state control function entity para.[0033], "As will be explained in greater detail below, the SIP application server 216 is a SIP-based service platform, i.e., may be implemented as a SIP proxy/redirect/registrar server enhanced with service logic execution environment, APIs, web server, and media servers." **Note:** Application server 216 also provides the call control function, and as such it is also providing call state control function.).

Referring to claim 8,

Wang teaches a communication system as claimed in claim 1, wherein the external entity comprises an application server (para.[0077], "4) Further <u>presence status can be established by CSCF (call state control function) registration (application layer registration) event reported from the serving CSCF</u> in an IMS (IP Multimedia subsystem) network to indicate the mobile subscriber has an open channel to undertake a multimedia session." **Note:** Here the presence status is subscribed by the presence server of the SIP Application server 216 from CSCF.)

Referring to claim 9,

Wang teaches a communication system as claimed in claim 8, wherein the application server is a presence server. (para.[0077], "4) Further presence status can be established by CSCF (call state control function) registration (application layer registration) event reported from the serving CSCF in an MS (IP Multimedia subsystem) network to indicate the mobile subscriber has an open channel to undertake a multimedia session." Note: Here the presence status is subscribed by the presence server of the SIP Application server 216 from CSCF.)

Referring to claim 10,

Wang teaches a communication system as claimed in claim 1, wherein the external entity comprises a user equipment(para.[0077], "4) Further presence status can be established by CSCF (call state control function) registration (application layer registration) event reported from the serving CSCF in an IMS (IP Multimedia subsystem) network to indicate the mobile subscriber has an open channel to undertake a multimedia session." **Note:** Here the presence status is subscribed by the presence server of the SIP Application server 216 from CSCF.)

Referring to claim 11,

Wang teaches a communication system as claimed in claim 1, wherein the at least one other entity comprises a user equipment. (para. [0080], "User B subscribes to User A's presence status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled).", para. [0112], "At step 1702, the User B sends a SIP Subscribe request to the SIP AS 216 to subscribe to the presence

status of User A. At step 1704, User A powers on his mobile station and sends an

Attach request to the SGSN 208. At step 1706, the Gb/Iu handler 1402 sends the

Attach_Accept message to the MM 1404. The MM 1404 checks the SGSN internal

SIP_AS flag and scans the subscriber profile and sends the Attach accept message to

the User A at step 1708. At step 1710, a Start_SIP_UA message is sent to the SIP UA

214. At step 1712, a SIP Register message is sent to the SIP AS 216 that the MS A is

successfully attached." **Note:** User A's mobile station is the at least one other entity

comprises a user equipment.)

Referring to claim 12,

Wang teaches a communication system as claimed in claim 1, wherein the

system operates in accordance with a session initiation protocol (SIP), and the events

are events of that protocol (para. [0080], "User B subscribes to User A's presence status

by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done

by contacting User A's home presence server, which is an Application Server (may or

may not be SIP enabled). It is assumed that User A was not online yet. Otherwise the

Application Server would send notification message right away to User B. When User A

powers on, the network (SGSN) intercepts the event and sends a SIP REGISTER 1204

request to the SIP Application Server (visited presence server), which in turn forwards

the information to User A's home presence server 1206. The subscription list is

checked there and a notification message 1210 is sent to User B. An Instant Message

1208 from User B to User A follows. User B may choose to use other means to contact

User A, such as SMS.")

Referring to claim 13,

Wang teaches a communication system as claimed in claim 12 wherein the subscription message comprises a SIP SUBSCRIBE message, and the notification comprises a SIP NOTIFY message (para. [0078], "The presence status is stored in a centralized presence server in the home network regardless which event established the status. SIP SUBSRIBE/NOTIFY message may be used for another party to subscribe to a subscriber's presence status, and/or to be notified of the subscriber's presence status from the presence server. SIP REGISTER and other possible SIP messages are suitable to report a subscriber's presence status to the presence server.")

Referring to claim 14,

Wang teaches a method for sending notifications (Figs. 2, 12 and 16) in a communication system comprising a multimedia network (para. [0026], "FIGS. 2-16 illustrate a system and method for providing multimedia content in a GPRS network according to an implementation of the invention."), an entity that is external to the multimedia network and at least one other entity (para. [0080], "User B subscribes to User A's presence status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled)." Note: User B is an entity external to the multimedia network and User B is at least one other entity.),the multimedia network including an information storage entity (para.[0112], "At step 1702, the User B sends a SIP Subscribe request to the SIP AS 216 to subscribe to the presence status of User A. At step 1704, User A powers on his mobile station and sends an Attach request

to the SGSN 208. At step 1706, the Gb/Iu handler 1402 sends the Attach_Accept

message to the MM 1404. The <u>MM 1404 checks the SGSN internal SIP AS flag and</u>

<u>scans the subscriber profile</u> and sends the Attach accept message to the User A at step

1708.") and call state control function (para,.[0077], "(4) Further presence status can be

established by CSCF (call state control function) registration (application layer

registration) event reported from the serving CSCF in an IMS (IP Multimedia

subsystem) network to indicate the mobile subscriber has an open channel to undertake

a multimedia session.", and para.[0033], "As will be explained in greater detail below,

the SIP application server 216 is a SIP-based service platform, i.e., may be

implemented as a SIP proxy/redirect/registrar server enhanced with service logic

execution environment, APIs, web server, and media servers." **Note:** Application server

216 also provides the call control function, and as such it is also providing call state

control function.)entities, the method comprising:

subscribing by the external entity to the multimedia network for notifications

regarding events associated with the at least one other entity (para.[0078], "The

presence status is stored in a centralized presence server in the home network

regardless which event established the status. SIP SUBSRIBE/NOTIFY message may

be used for another party to subscribe to a subscriber's presence status, and/or to be

notified of the subscriber's presence status from the presence server. SIP REGISTER

and other possible SIP messages are suitable to report a subscriber's presence status

to the presence server.", para. [0080], "User B subscribes to User A's presence status

by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done

by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled)." **Note:** GGSN 210 is interfacing the Internet to HOME PRESENCE SERVER".);

routing of subscription messages from the external entity to at least one call state control function entity (para. [0111], "FIG. 16 is a diagram illustrating message flow for a sample Presence Service followed by Instant Messaging. In the example shown, User B 202b subscribes to the presence status of User A 202a at the SIP Application Server 216, which serves as the Presence Server." Para. [0080], "User B subscribes to User A's presence status by SUBSCRIBE 1202 User A's static IP address or his URI. The subscription is done by contacting User A's home presence server, which is an Application Server (may or may not be SIP enabled).") based on information stored in said information storage entity(para. [0007] According to one embodiment of the invention, the GPRS system supports both SIP Application Server (SIP AS) and CAMEL Service Environment (CSE). In operation, the system determines if a mobile station is to be provided a CAMEL-triggered or a SIP-triggered service, based upon subscription information stored in an HLR or the SGSN configuration. The system then allows the appropriate service to be invoked and executed."),

storing in storage means associated with said at least one call state control function entity information received in said subscription messages(para.[0080], "The subscription list is checked there and a notification message 1210 is sent to User B.", para.[0112], "At step 1716, the SIP AS 216 checks if anyone is to be notified of the presence of MS A, and sends a notify message to User B. "), and

sending a notification by the call state control function in response to an event

defined by said information stored at the storage means (para. [0079], "FIG. 12 is an

example of presence service where the presence status is established at the

subscriber's attachment to the GPRS network. The presence server notifies another

user of the presence status change, who previously subscribed to this information.")

Conclusion

Examiner's note: Examiner has cited particular columns and line numbers in the

references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are

applied to the specific limitations within the individual claim, other passages and figures

may apply as well. It is respectfully requested from the applicant in preparing responses,

to fully consider the references in entirety as potentially teaching all or part of the

claimed invention, as well as the context of the passage as taught by the prior art or

disclosed by the Examiner.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ashok B. Patel whose telephone number is (571) 272-

3972. The examiner can normally be reached on 6:30 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan A. Flynn can be reached on (571) 272-1915. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ashok Patel
Examiner
AU 2154